

BUR920040027US1 (MJL) Austin, et al

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FIG. 1 Prior Art

State	LO	L1	. L2	L3	State	LO	L1	L2	L3
1	0	0	0	0	9	0	0	0	1
2	1	0	0	0′	- 10	1.	0	0	1
3	0	17	0	0	11	0	1	0	1
4	1	1	0	0	12	1	1	0	1
5	0	0	1	0 -	13	0	0 /	1	1
6	1	0		0	14	1	0	1	.1
7	0	1	1	0	15	0	1	1	1
8	1	1	1	. 0	16	1	1	1	1

FIG. 1 Prior Art

State	L0	L1.	L2	L3	State	L0	L1	L2	L3 .
1	0	0	0	0	9	0	0	0	1
2	1	0	0	0	10	1	0	0	1
3	0	1	0	0	11	0	1	0	1
4					12	1	1	0	1
5	0	0	1	0	13	0	0	1	1
6	1	0	1 :	0	14	1	0	1	1
7	0	. 1.	1	0	15	0 -	1	1	1
8	1	1	1	0	16	1 -	1	1	1

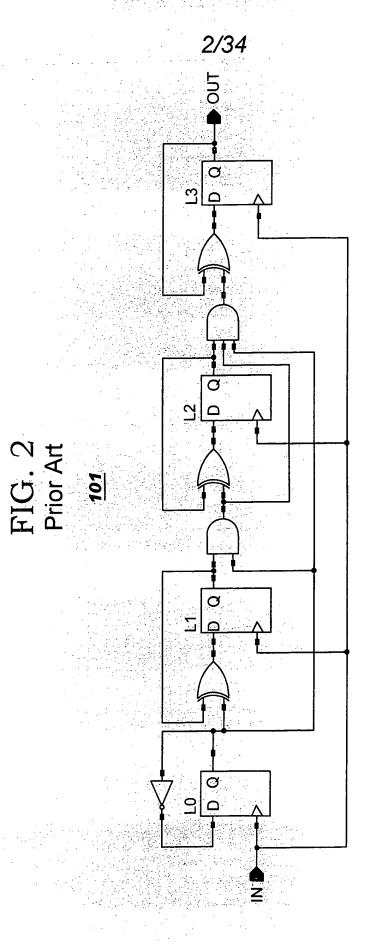


FIG. 6 Prior Art

State	L0	L1	L2 L3	State	L0	L1	L2	L3
1	0	0	0 1	9	0	1	0	1
2	1	0	0 0	10	1	0	1	0
3	0	1	0 0	11	1	1	0	1
4	0	0	1 0	12	1	1	1	0
5	1	0	0 1	13	1	1	1	1
6	1	1	0 0	14	0	1	1	1
7	0	1	1 0	15	0	0	1	1
8	1	0	1 1					

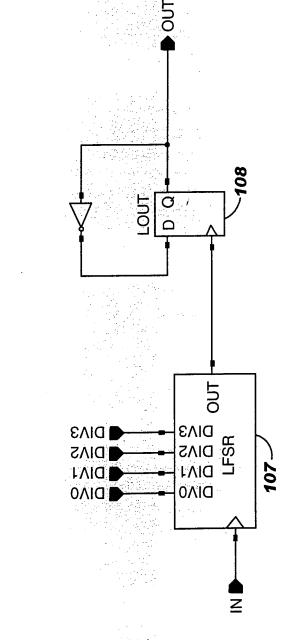


FIG. 7

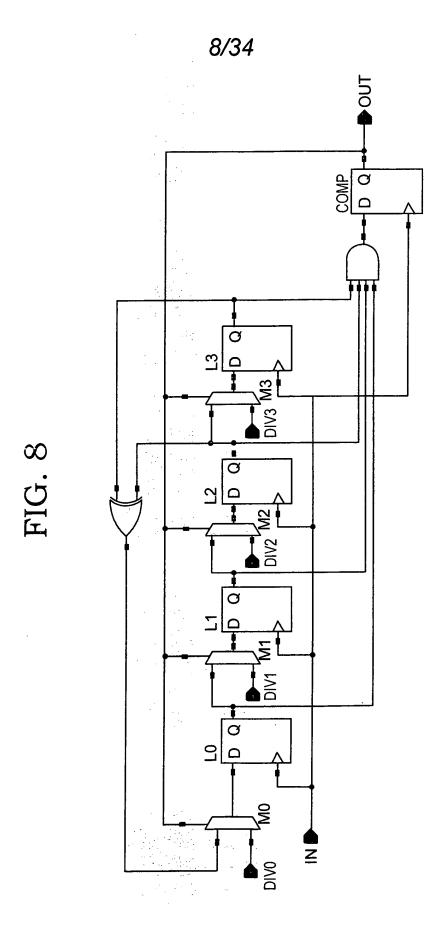


FIG. 9

LFSR Divide Value	DIV0	DIV1	DIV2	DIV3	LFSR Divide Value	DIV0	DIV1	DIV2	DIV3
1	0	0	0	0	9	1	1	0	0
2	1	1	1	1	10	1	0	0	1
3	1	1	1	0	11	0	0	1	0
4	1	1	0 ·	1	12	0	1	0	0
5	1	0	1	0	13	1	0	0	0
6	0	1	0	1	14	0	0	0	1
7	1	0	1	1	15	0	0	1	1
8	0	1	1	0	16	0	1	1	1

FIG. 10

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Final Divide Value	DIV0	DIV1	DIV2	DIV3	Final Divide Value	DIV0	DIV1	DIV2	DIV3
2	0	0	0	0	18	1	1	0	0
4	1	1	1	1	20	1	0	0	1
6	1	1	1	0	22	0	0	1	0
8	1	1	0	1	24	0	1	0	0
10	1	0	1	0	26	1	0	0	0
12	0	1	0	1	28	0	0	0	1
14	1	0	1	1	305	0	0	1	1
16	0	1	1	0	32	0	1 .	1	1

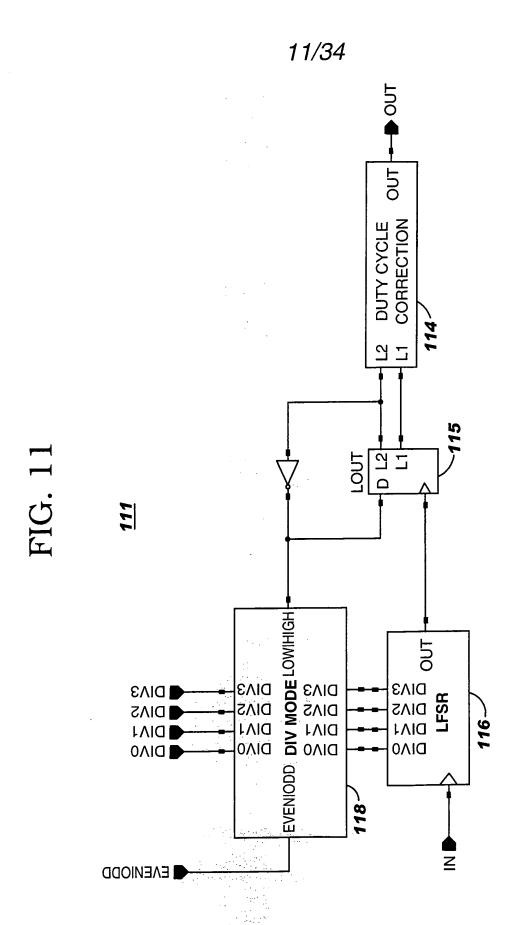
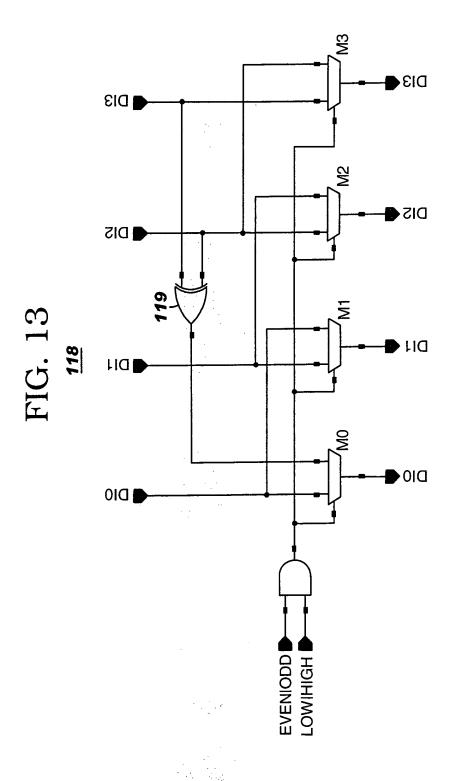


FIG. 12

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			LOWI	HIGH=1		LOWIF	HGH=0		
LFSR	Final	DIV0	DIV1	DIV2	DIV3	DIV0	DIV1	DIV2	DIV3
Divide	Divide	'a'	'a'	'a'	'a'	'b'	'b'	'b'	'b'
Value	Value								
1	2	0	0	0	0	0	0	0	0
2,1	3	1	1 -	1	1	0	0	0	0
2	4	1	1	1	1	1	1	1	1
3,2	5	1	1	1	0	1	1	1	1.
3	6	1	1	1	0	1	1	1	0
4,3	7	1	1	0	1	1	1	1	0
4	8	1	1	0	1	1	1	0	1
5,4	9	1	0	1	0	1	1	0	1
5	10	1	0	1	0	1	0	1	0

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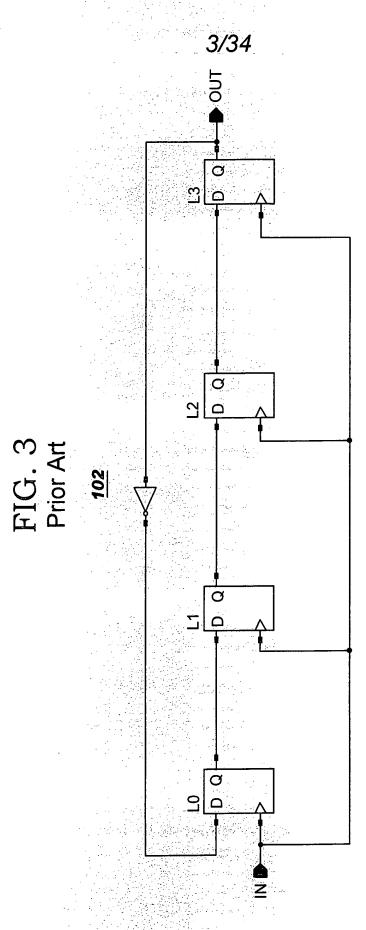
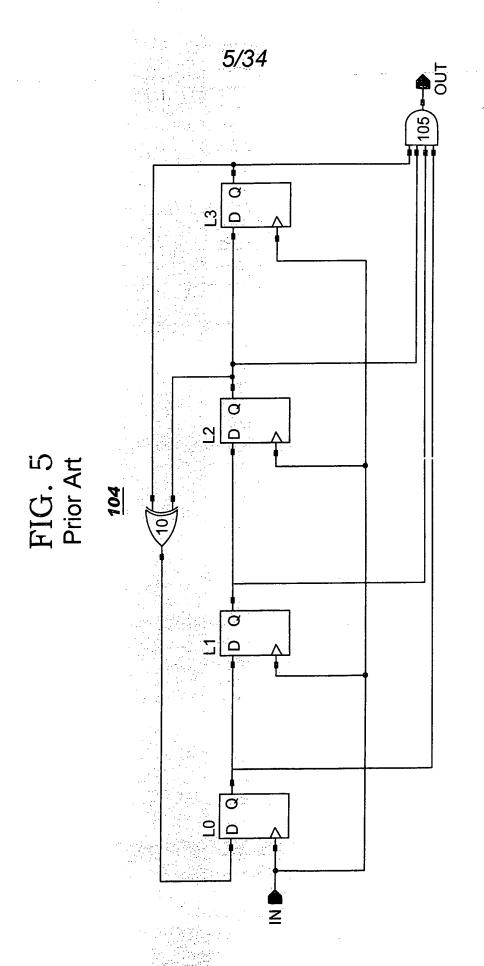


FIG. 4 Prior Art

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State	LO -	L1 L2 J	_3 State	L0	L1	L2	L3
1a	0	0 0	0 1b	0	0	1	0
2a	1	0 0	0 2b	1	0	0	1
3a	1	1 0	0 3b	0	1	0	0
4a	1	1	0 4b	1	0	1	0
5a	1	1 1	1 5b	1	1	0	1
6a	0	1 1	1 6b	0	1	1	0
7a	0	0 1	1 7b	1	0	1	1
8a	0	0 0	1 8b	0	1	0	1



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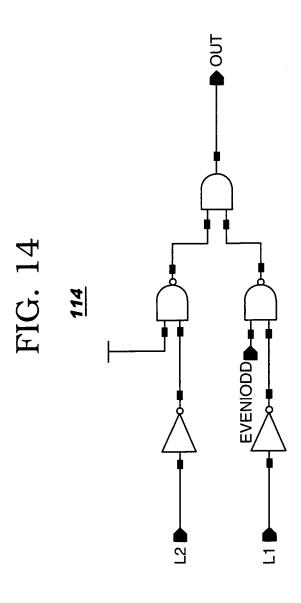
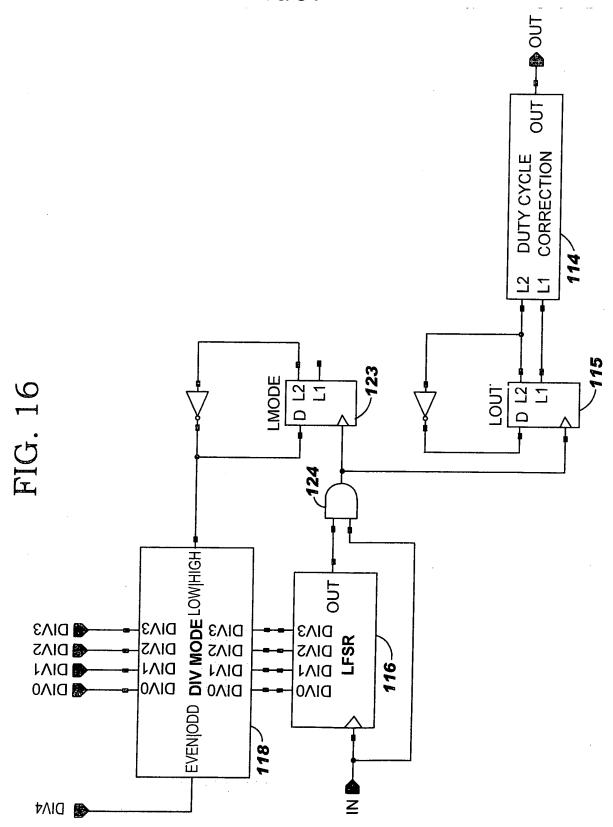


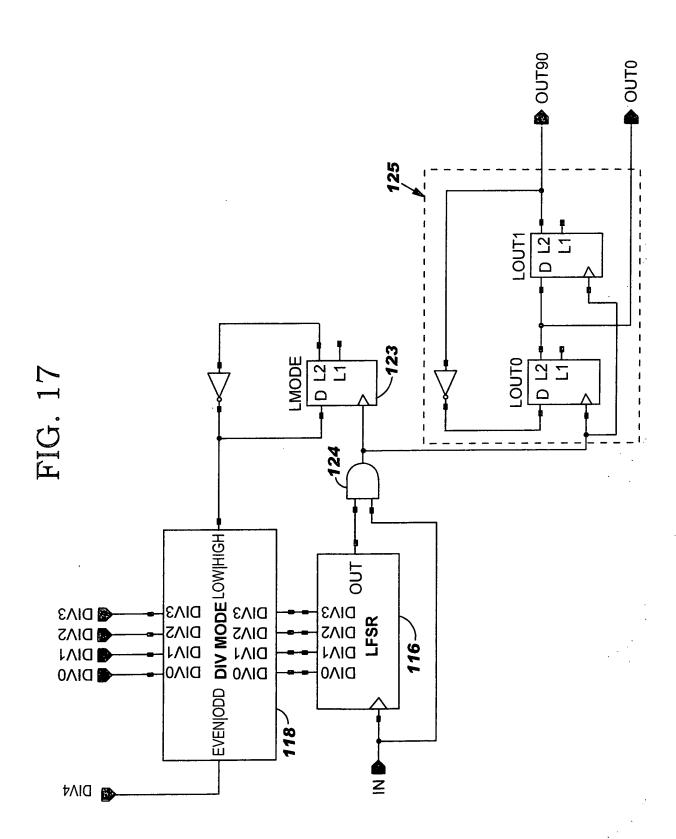
FIG. 15

Final Divide Value	DIV0	DIV1	DIV2	DIV3	DIV4	Final Divide Value	DIV0	DIV1	DIV2	DIV3	DIV4
value	0	0	0	0	1	17	1	1	0	0	1
1	0	0	0	•	1		4	4	0	0	,
2	0	0	0	0	0	18	1	<u> </u>	Ū	0	U
3	1	1	1	1	1	19	1	0	0	1	1
4	1	1	1	1	0	20	1	0	0	1	0
5	1	1	1	0	1	21	0	0	1	0	1
6	1	1	1	0	0	22	0	0	1	0	0
7	1	1	0	1	1	23	0	1	0	0	1
8	1	1	0	1	0	24	0	1	0	0	0
9	1	0	1	0	1	25	1	0	0	0	1
10	1	0	1	0	0	26	1	0	0	0	0
11	0	1	0	1	1	. 27	0	0	0	1	1
12	0	1	0	1	0	28	0	0	0	1	0
13	1	0	1	1	1	29	0	0	1	1	1
14	1	0	1	1	0	30	0	0	1	1	0
15	0	1	1	0	1	31	0	1	1	1	1
16	0	1	1	0	0	32	0	1	1	1	0

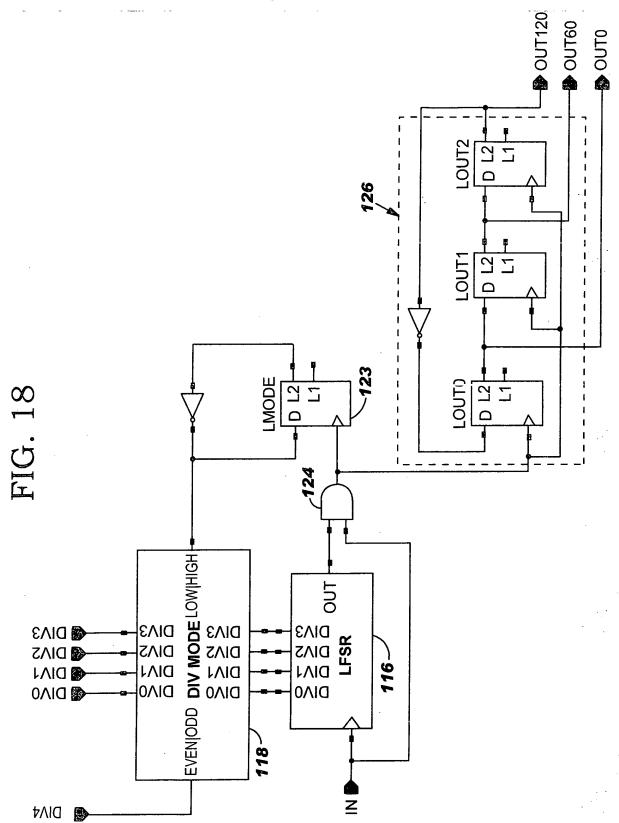


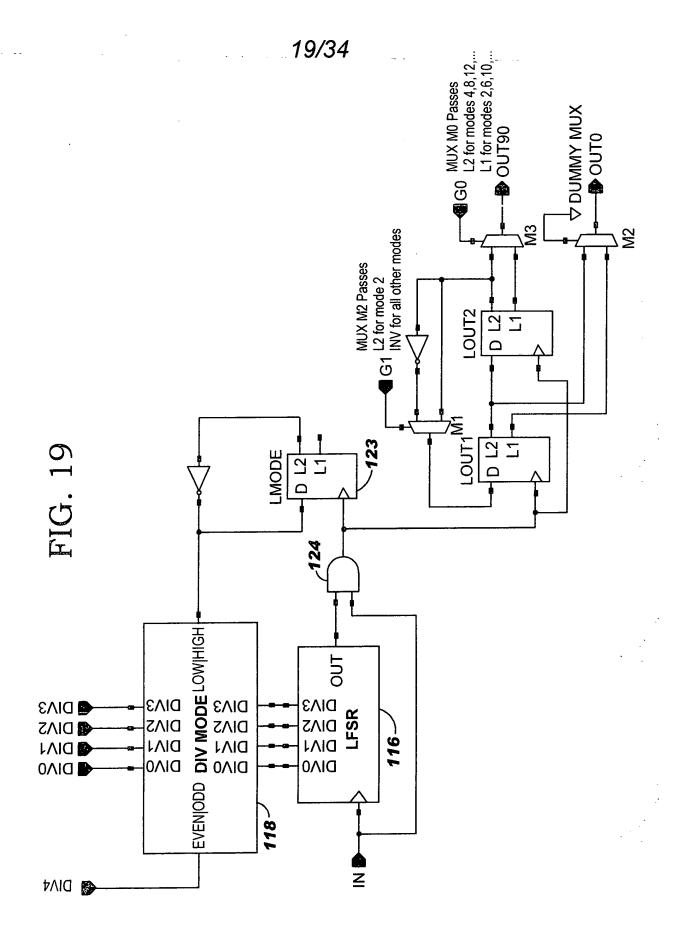


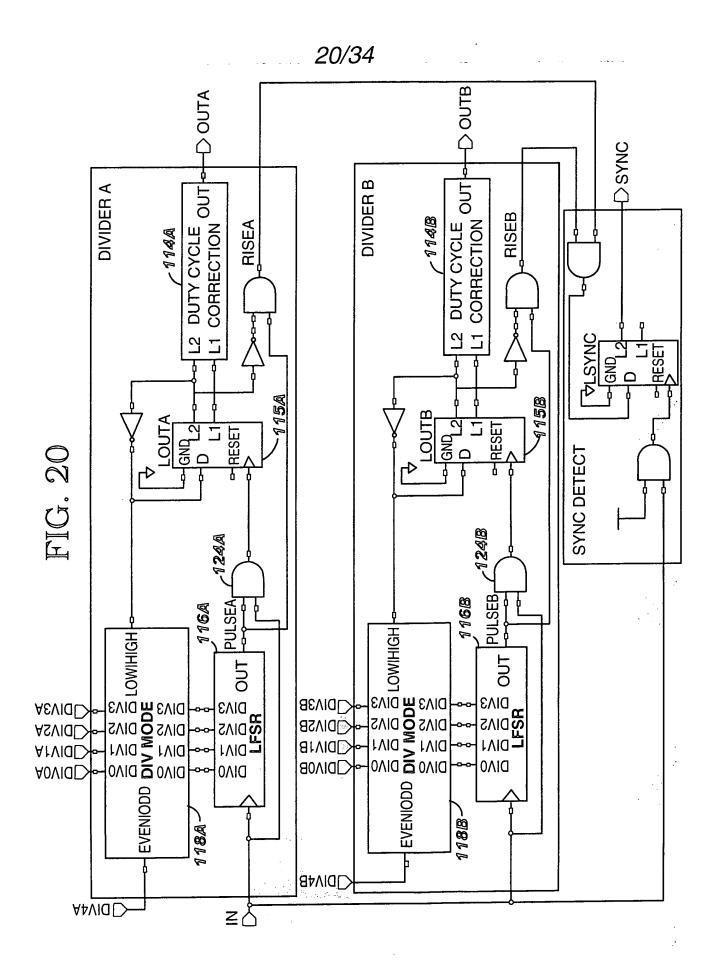
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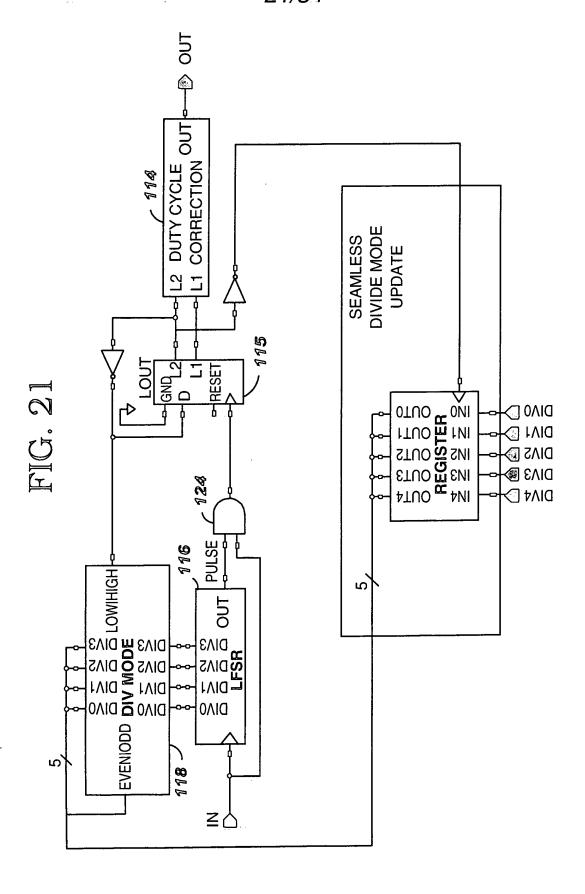


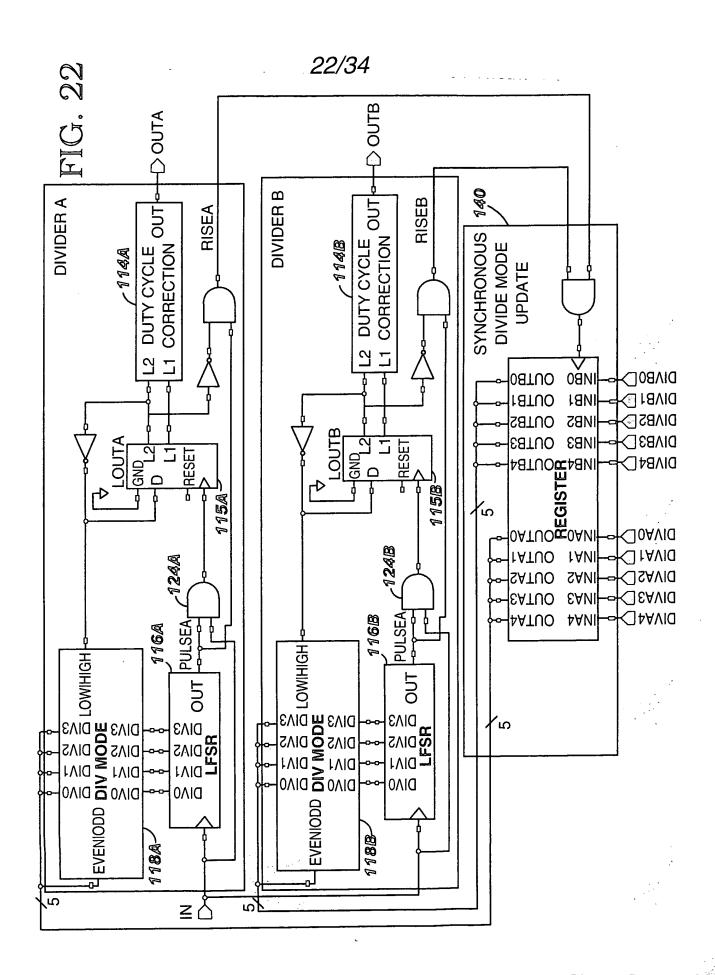






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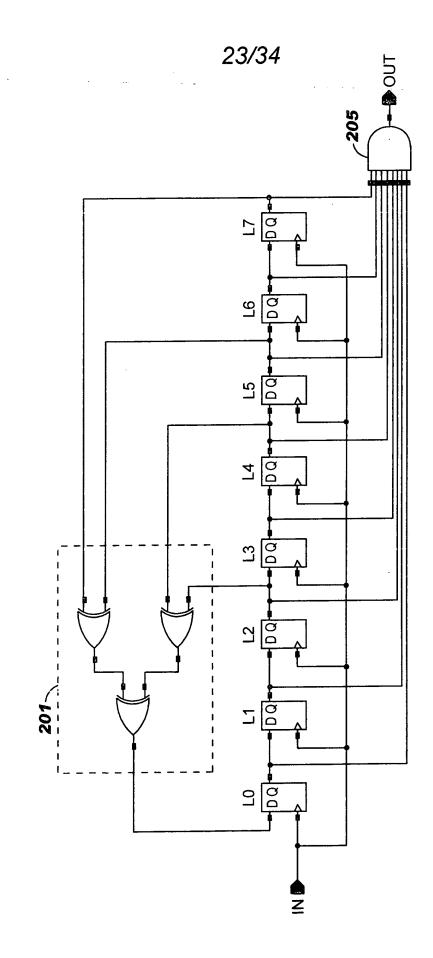


FIG. 23

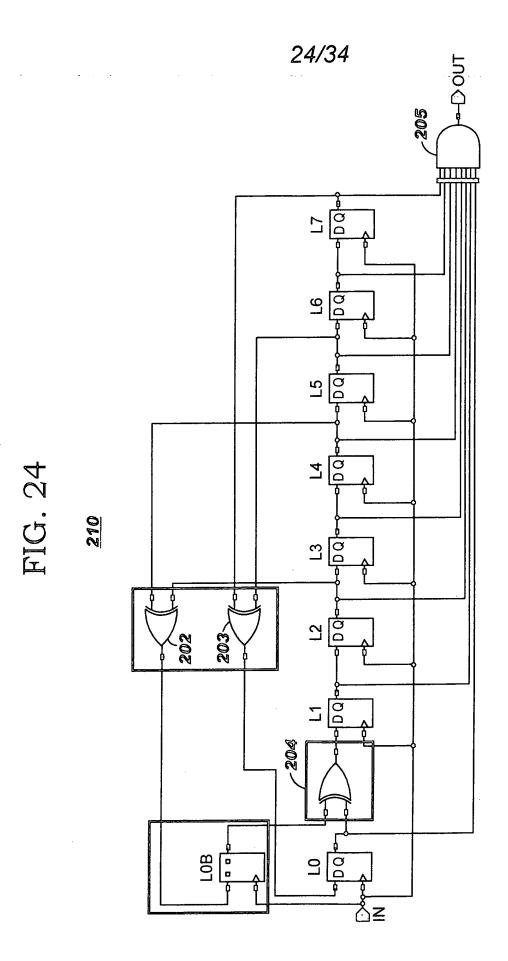


FIG. 25

LO	L1	L2	L3	L4	L5	L6	L7	State	Out
0	0	0	0	1	0	1	0	63	0
0	0	0	0	0	1	0	1	64	0
1	0	0	0	0	0	1	0	65	0
								66>254	0
1	1	1	1	1	1	1	1	255(2 ^N -1)	1
0	1	1	1	1	1	1	1	1	0

FIG. 26

L0	L1	L2	L3	L4	L5	L6	L7	State	Out
								63	
								64	
								65	

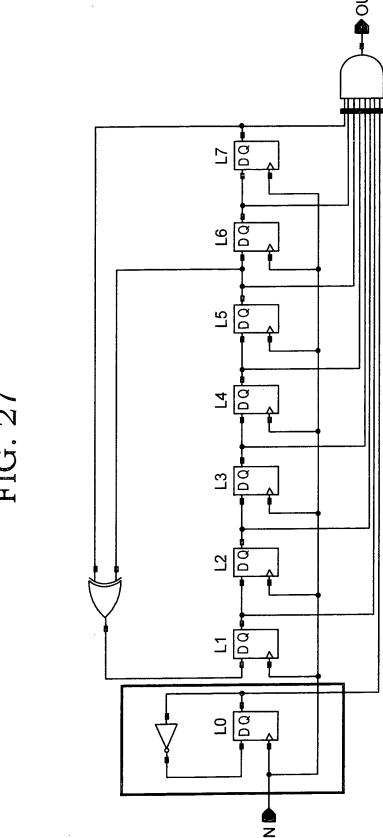


FIG. 27

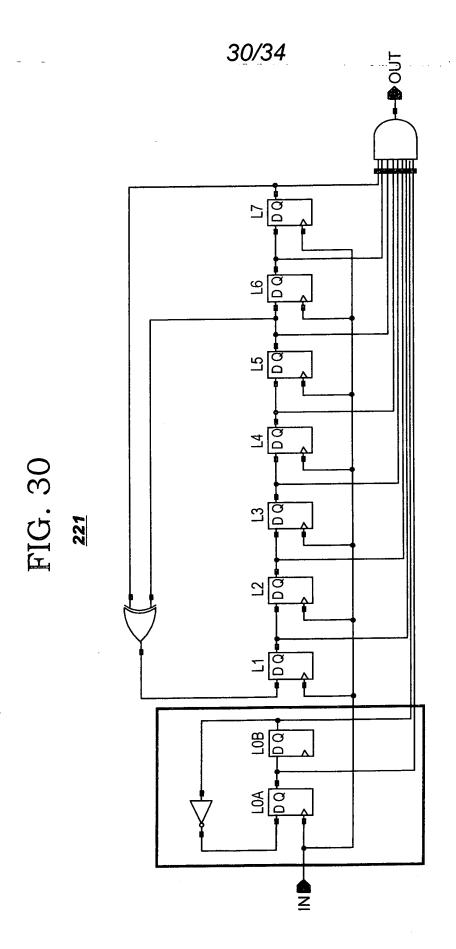
FIG. 28

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L0	L1	L2	State	Out
0	0	1	1	0
1	1	0	2	0
0	1	1	3	0
1	0	1	4	0
0	1	0	5	0
1	1	1	6 (2 ^N -2)	1
0	0	1	1	0
1	1	0	2	0
Λ	1	1	3	0

FIG. 29

L0	L1	L2	State	Out
0	0	0	1	0
1	0	1	2	0
0	1	0	3	0
1	1	1	4 [2(N-1)]	1
0	0	0	1	0
1	0	1	2	0
0	1	0	3	0



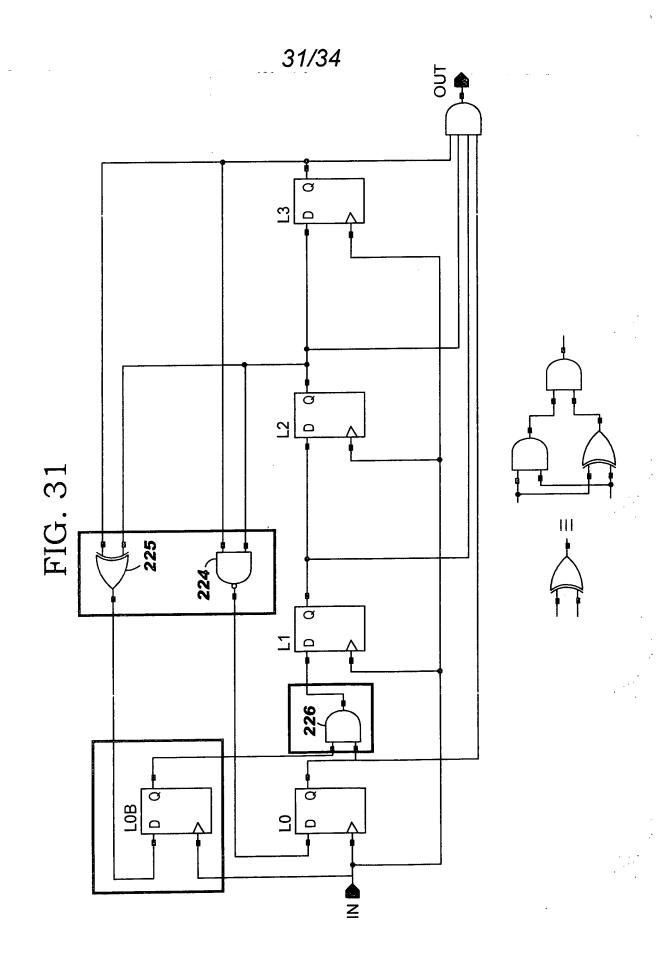


FIG. 32

L0	L1	L2	L3	L0B	State	Out
0	1	1	1	0	1	0
0	0	1	1	0	2	0
0	0	0	. 1	0	3	0
1	0	0	0	0	4	0
1	1	0	0	1	5	0
1	0	1	0	1	6	0
1	0	0	1	0	7	0
1	1	0	0	0	8	0
1	1	1	0	1	9	0
1	0	1	1	0	10	0
0	1	0	1	0	11	0
1	0	1	0	0	12	0
1	1	0	1	0	13	0
1	1	1	0	0	14	1
1	1	1	1	0	15(2 ₁ N-1)	0
0	1	1	1	0	1	0
0	0	1	1	0	2	

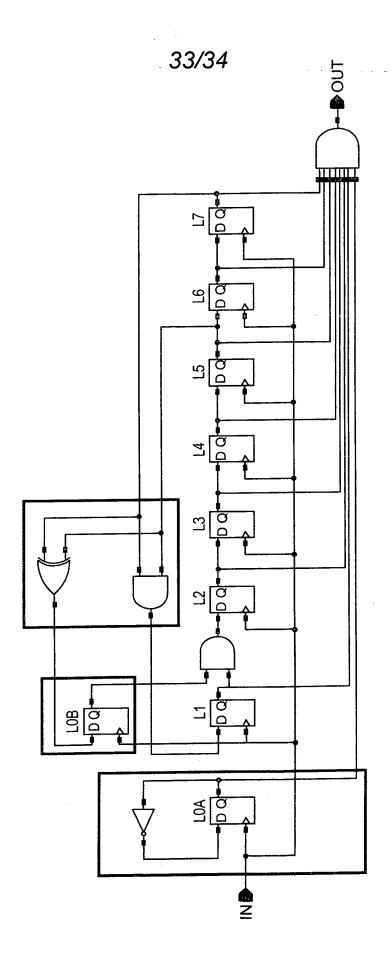


FIG. 33

